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(54) Method for the determination of an analyte.

(57) The invention relates to a method for the determination of thyrotropin, tyroxin or free thyroxin from dried blood samples by means of fluorometric immunoassays. Horseradish peroxidase is used as the enzyme and 3-p-hydroxyphenylpropionic acid as the substrate. The assay is performed in multicuvette format (e.g. microtitration plates), and is rapid and accurate. It is suitable for high capacity testing with automatic processing and measurements.